

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A device in a wireless communication system, comprising:
 - a reselection unit operative to provide an indication to perform cell reselection from a first base station to a second base station;
 - a control unit operative to initiate a cell reselection procedure for the second base station in response to the indication from the reselection unit, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and
 - a monitoring unit operative to receive from a broadcast channel of the second base station sufficient system information to process a paging channel of the second base station, to determine which particular time intervals are assigned to the device for the paging channel based on the sufficient system information, to start monitoring the paging channel upon reception of the sufficient system information from the second base station and prior to completion of the cell reselection procedure, and to monitor the paging channel during the time intervals assigned to the device to detect for paging messages sent by the second base station to the device;

whereby the device performs an early camping operation which reduces a time gap for receiving paging messages from the second base station during cell reselection;

 - wherein the sufficient system information is System Information Type 3 in a Global System for Mobile Communications (GSM) system.

2. (Original) The device of claim 1, wherein the control unit is operative to direct reception of full system information for the second base station in order to complete the cell reselection procedure and for two-way communication with the second base station.

3. (Previously Presented) The device of claim 1, wherein the monitoring unit is operative to receive a paging message on the paging channel of the second base station prior to completion of the cell reselection procedure and to respond to the paging message via the second base station after completion of the cell reselection procedure.

4. (Previously Presented) The device of claim 1, wherein the monitoring unit is operative to receive a paging message on the paging channel of the second base station prior

to completion of the cell reselection procedure, abort the cell reselection procedure, and respond to the paging message via the first base station.

5-6. (Canceled)

7. (Currently amended) An apparatus in a wireless communication system, comprising:

means for providing an indication to perform cell reselection from a first base station to a second base station;

means for performing a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

means for receiving from a broadcast channel of the second base station sufficient system information to process a paging channel of the second base station;

means for determining which particular time intervals are assigned to the apparatus for the paging channel based on the sufficient system information;

means for starting monitoring of the paging channel upon receiving the sufficient system information from the second base station and prior to completing the cell reselection procedure; and

means for monitoring the paging channel during the time intervals assigned to the apparatus to detect for paging messages sent by the second base station to the apparatus;

whereby the apparatus performs an early camping operation which reduces a time gap for receiving paging messages from the second base station during cell reselection;

wherein the sufficient system information is System Information Type 3 in a Global System for Mobile Communications (GSM) system.

8. (Previously Presented) The apparatus of claim 7, further comprising:

means for receiving a paging message on the paging channel of the second base station prior to completing the cell reselection procedure; and

means for responding to the paging message via the second base station after full system information has been received.

9. (Previously Presented) The apparatus of claim 7, further comprising:
means for receiving a paging message on the paging channel of the second base station prior to completing the cell reselection procedure;
means for aborting the cell reselection procedure; and
means for responding to the paging message via the first base station.

10. (Currently amended) A method of performing cell reselection at a device in a wireless communication system, comprising:
providing an indication to perform cell reselection from a first base station to a second base station;
performing a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;
receiving from a broadcast channel of the second base station sufficient system information to process a paging channel of the second base station;
determining which particular time intervals are assigned to the device for the paging channel based on the sufficient system information;
starting monitoring of the paging channel upon receiving the sufficient system information from the second base station and prior to completing the cell reselection procedure; and
monitoring the paging channel during the time intervals assigned to the device to detect for paging messages sent by the second base station to the device;
whereby the device performs an early camping operation which reduces a time gap for receiving paging messages from the second base station during cell reselection;
wherein the sufficient system information is System Information Type 3 in a Global System for Mobile Communications (GSM) system.

11. (Currently amended) A processor readable media for storing instructions operable in a wireless device to:
provide an indication to perform cell reselection from a first base station to a second base station in a wireless communication system;

perform a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

receive from a broadcast channel of the second base station sufficient system information to process a paging channel of the second base station;

determine which particular time intervals are assigned to the wireless device for the paging channel based on the sufficient system information;

start monitoring of the paging channel of the second base station upon receiving the sufficient system information from the second base station and prior to completing the cell reselection procedure, and

direct monitoring of the paging channel during the time intervals assigned to the wireless device to detect for paging messages sent by the second base station to the wireless device;

whereby the wireless device performs an early camping operation which reduces a time gap for receiving paging messages from the second base station during cell reselection;

wherein the sufficient system information is System Information Type 3 in a Global System for Mobile Communications (GSM) system.

12. (Currently amended) A device in a wireless communication system, comprising:

a reselection unit operative to provide an indication to perform cell reselection from a first base station to a second base station; and

a control unit operative to, in response to the indication from the reselection unit,

direct decoding of designated system information from a broadcast channel of the second base station,

use successful or unsuccessful decoding of the designated system information as reconfirmation of ability to decode a control channel of the second base station prior to performing cell reselection to the second base station,

if the designated system information from the second base station is decoded successfully, switch to the second base station and initiate a cell reselection procedure for the second base station, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell, and

skip the cell reselection procedure if the designated system information is not decoded successfully;

whereby the device performs an early camping operation which reduces a time gap for receiving paging messages from the second base station during cell reselection;

wherein the designated system information includes System Information Type 3 in a Global System for Mobile Communications (GSM) system.

13. (Original) The device of claim 12, wherein the control unit is operative to direct reception of full system information for the second base station in order to complete the cell reselection procedure and for two-way communication with the second base station.

14. (Previously Presented) The device of claim 12, further comprising:
a monitoring unit operative to obtain, from the designated system information, sufficient system information to process a paging channel of the second base station and to initiate monitoring of the paging channel when the cell reselection procedure is initiated.

15. (Previously Presented) The device of claim 12, further comprising:
a monitoring unit operative to receive sufficient system information to process a paging channel of the second base station and to initiate monitoring of the paging channel upon reception of the sufficient system information and prior to completion of the cell reselection procedure.

16-17. (Canceled)

18. (Currently amended) An apparatus in a wireless communication system, comprising:
means for providing an indication to perform cell reselection from a first base station to a second base station;
means for decoding designated system information from a broadcast channel of the second base station in response to the indication to perform cell reselection;

means for using successful or unsuccessful decoding of the designated system information as reconfirmation of ability to decode a control channel of the second base station prior to performing cell reselection to the second base station;

means for, if the designated system information from the second base station is decoded successfully, switching over to the second base station and performing a cell reselection procedure for the second base station, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and

means for skipping the cell reselection procedure if the designated system information is not decoded successfully;

whereby the apparatus performs an early camping operation which reduces a time gap for receiving paging messages from the second base station during cell reselection;

wherein the designated system information includes System Information Type 3 in a Global System for Mobile Communications (GSM) system.

19. (Previously Presented) The apparatus of claim 18, further comprising:

means for starting monitoring of a paging channel of the second base station upon receiving sufficient system information to process the paging channel and prior to completing the cell reselection procedure.

20. (Currently amended) A method of performing cell reselection in a wireless communication system, comprising:

providing an indication to perform cell reselection from a first base station to a second base station;

decoding designated system information from a broadcast channel of the second base station in response to the indication to perform cell reselection;

using successful or unsuccessful decoding of the designated system information as reconfirmation of ability to decode a control channel of the second base station prior to performing cell reselection to the second base station;

if the designated system information from the second base station is decoded successfully,

switching over to the second base station, and

performing a cell reselection procedure for the second base station, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and

skipping the cell reselection procedure if the designated system information is not decoded successfully;

whereby an early camping operation is performed which reduces a time gap for receiving paging messages from the second base station during cell reselection;

wherein the designated system information includes System Information Type 3 in a Global System for Mobile Communications (GSM) system.

21. (Previously Presented) The method of claim 20, wherein the designated system information includes sufficient system information to process a paging channel of the second base station, the method further comprising:

starting monitoring of the paging channel of the second base station upon performing the cell reselection procedure.

22. (Previously Presented) The method of claim 20, further comprising:
receiving sufficient system information to process a paging channel of the second base station; and

starting monitoring of the paging channel of the second base station upon receiving the sufficient system information and prior to completing the cell reselection procedure.

23-31. (Canceled)

32. (Previously presented) The device of claim 1, wherein the cell reselection procedure is initiated when the device is in an idle mode.

33. (Previously presented) The device of claim 1, wherein no transmissions are sent to the first or second base station for the cell reselection procedure.

34. (Previously presented) The device of claim 1, wherein the control unit is further operative to use the sufficient system information to determine paging blocks assigned to the device by the second base station, and wherein the monitoring unit is operative to

monitor the paging channel during the assigned paging blocks to detect for paging messages sent by the second base station to the device.

35. (Previously Presented) The device of claim 1, wherein the monitoring unit is operative to receive the sufficient system information from a broadcast control channel (BCCH) for the second base station.